

# GEOHERMAL ENERGY UTILIZATION ASSOCIATED WITH OIL & GAS DEVELOPMENT

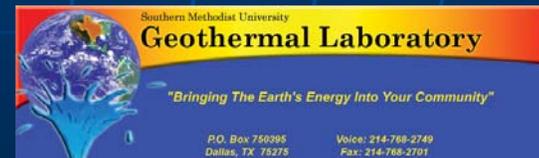
Brian Hageman, Inventor, CEO  
Deluge, Inc.

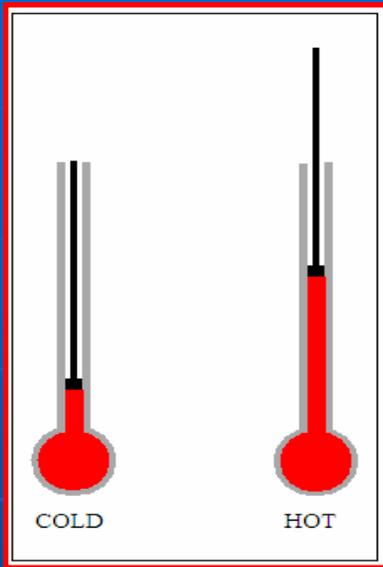
The Natural Energy Engine™

*June 12 – 13, 2007*  
**Southern Methodist University**  
**Dallas, Texas**



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Expansion of LIQUIDS  
Converts HEAT to Mechanical Power

The Natural Energy Engine™



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Geothermal  
Solar Thermal  
Waste Heat  
Fossil Fuels

Crude Oil  
Natural Gas  
Water Desalting  
Freon Compression  
Electricity Generation  
Biomedical  
Robotics  
Nano - Mega

1. Sandia National Laboratory New Mexico
2. Arizona State University Masters Thesis
3. Indian Institute of Technology Madras
4. Department of Energy RMOTC Wyoming
5. Department of Interior WQIC Arizona

# Technology Verification



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Department  
Of Energy's  
Rocky Mountain  
Oilfield Testing Center



[http://www.youtube.com/watch?v=qvQr7f\\_BJyQ](http://www.youtube.com/watch?v=qvQr7f_BJyQ)  
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## The Natural Energy Engine™

Over 100,000 hours  
of continuous run time



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RO Membrane

Dept of the Interior  
Desalination  
WQIC

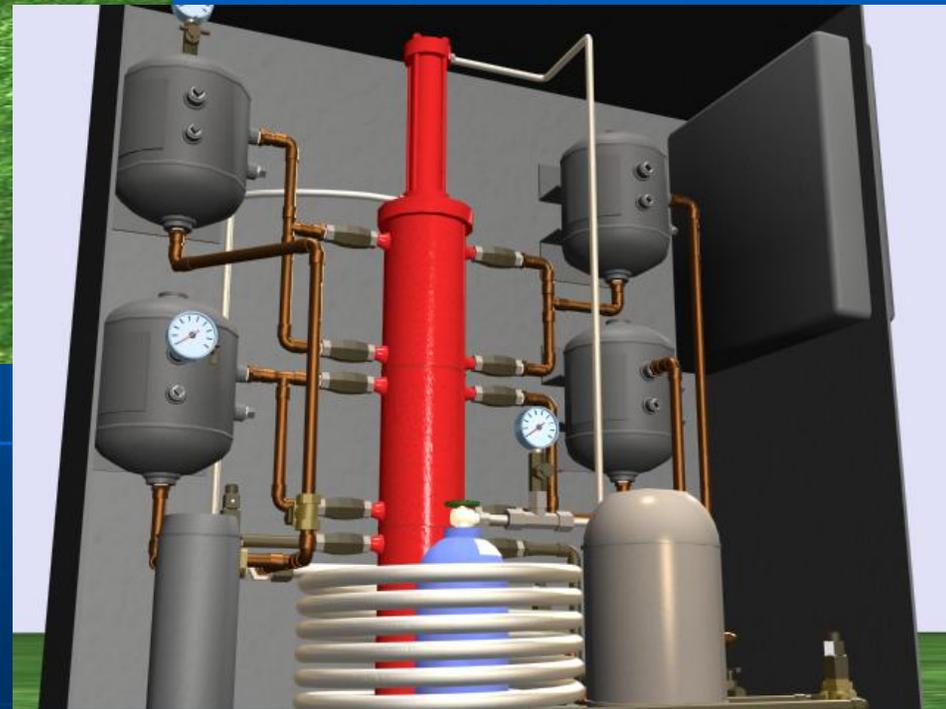
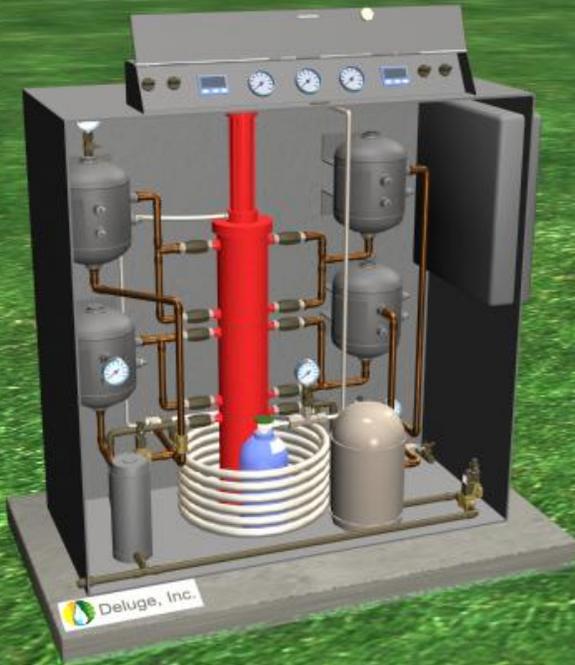
Two-Cylinder Natural Energy Engine



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# Deluge Natural Energy Engine

*available for sale*  
to the  
Natural Gas Industry  
For Dewatering  
of deep gas wells



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**Thank You!**

## Partners and Demonstration Sites

### Commercial Projects

Geothermal

Solar Thermal

Waste Heat

Electric Generation

Water Injection or RO

Gas Compression

Artificial Lift

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